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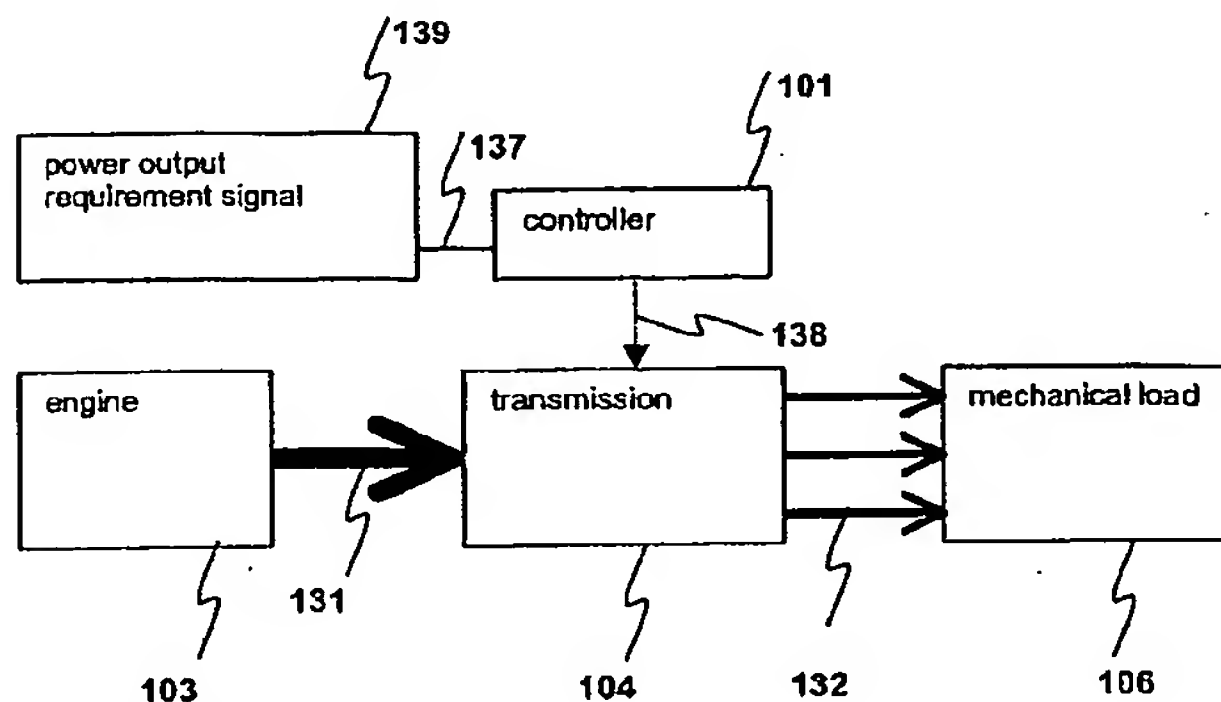
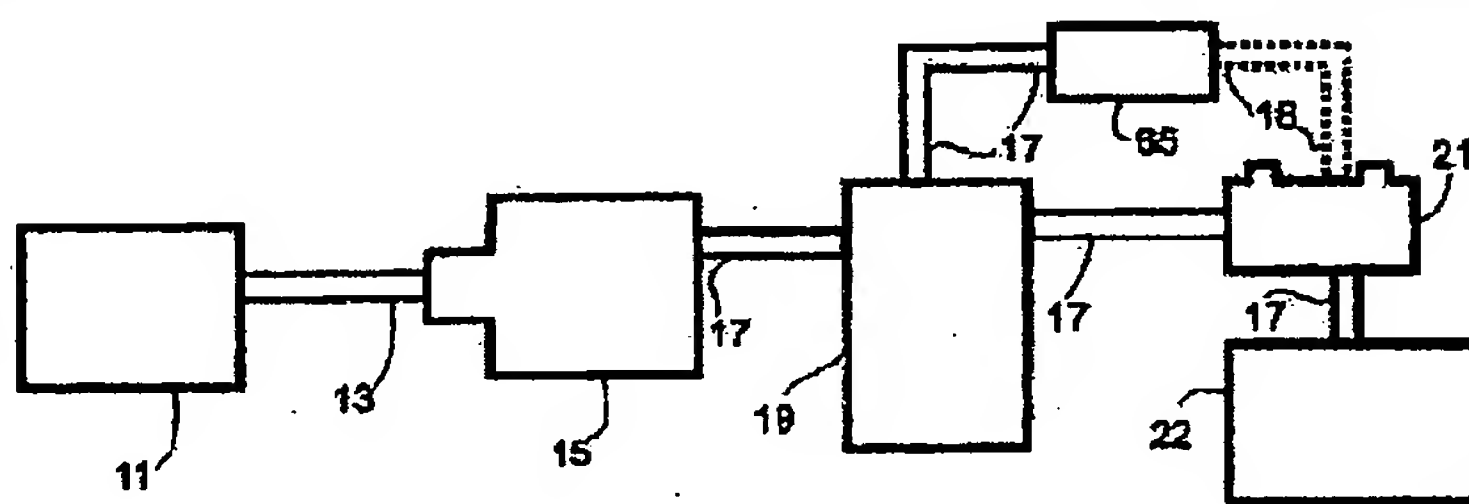
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(54) Title: ELECTRONICALLY CONTROLLED ENGINE GENERATOR SET



to control its equilibrium speed.

(57) Abstract: An electronically controlled electrical power generator comprises a generator (15) driven by a heat engine (11), operated by control means (19), and carrying an electrical load (22). Operation of the heat engine (11) is at wide open throttle. Control over engine operation and electrical output of the generator (15) is achieved by electronically manipulating the electric load (22), and/or adjusting excitation levels at the generator's magnetic fields, so as to change engine/generator equilibrium speed. In a beneficial embodiment, the generator (15) is powered by an energy storage unit (21), to temporarily act as a motor and rotate the engine (11) when starting, and during power absorbing strokes. A method for controlling an unthrottled engine (11) including varying the gear ratio of a transmission connected between the mechanical output of the engine (11) and a mechanical load (22), to provide a torque load to the engine (11) to cause the engine (11) to move to an equilibrium speed at which its power output substantially meets a power output requirement. In a second embodiment, variance in the impedance of an AC generator (15) connected to the engine (11) provide a torque load to the engine (11)



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